

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.weylo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/553,886	07/14/2006	Armel Le Lievre	PSA0305071	9882	
29980 NICOLAS E. S	7590 06/03/201 SECKEL	EXAM	EXAMINER		
Patent Attorne	у	OREILLY, I	OREILLY, PATRICK F		
1250 Connecticut Avenue, NW Suite 700 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER	
	.,	3749			
			NOTIFICATION DATE	DELIVERY MODE	
			06/03/2010	ELECTRONIC	

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail  $\,$  address(es):

patentmail@seckelip.com

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/553,886	LE LIEVRE, ARMEL		
Examiner	Art Unit		
Patrick F. O'Reilly III	3749		

	Faulck F. O'Relliy III	3749	
The MAILING DATE of this communication appe	ars on the cover sheet with the	orrespondence add	ress
THE REPLY FILED 19 May 2010 FAILS TO PLACE THIS APPI	LICATION IN CONDITION FOR AL	LOWANCE.	
<ol> <li>\( \)\[ \]\[ \]\ The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following i application in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods:</li> </ol>	replies: (1) an amendment, affidavi eal (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	which places the r (3) a Request
<ul> <li>a) The period for reply expires 3 months from the mailing date</li> </ul>	of the final rejection.		
<ul> <li>The period for reply expires on: (1) the mailing date of this Arno event, however, will the statutory period for reply expire la</li> </ul>	ter than SIX MONTHS from the mailing	date of the final rejection	on.
Examiner Note: If box 1 is checked, check either box (a) or (I MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f		FIRST REPLY WAS FI	LED WITHIN TWO
Extensions of time may be obtained under 37 CFR 1,138(a). The date have been filed is the date for purposes of determining the period red valued red 77 CFR 1,17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any pely received by the Office may reduce any earned patent term adjustment. See 37 CFR 1,704(b). NOTICE OF APPEAL.	ension and the corresponding amount hortened statutory period for reply origi than three months after the mailing dat	of the fee. The appropria nally set in the final Office	ate extension fee te action; or (2) as
2. The Notice of Appeal was filed on . A brief in compl	liance with 37 CFR 41.37 must be	filed within two months	s of the date of
filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
AMENDMENTS			
<ol> <li>The proposed amendment(s) filed after a final rejection, be</li> <li>They raise new issues that would require further cor</li> </ol>			cause
(b) They raise the issue of new matter (see NOTE below			
<ul> <li>(c) They are not deemed to place the application in bett appeal; and/or</li> </ul>	ter form for appeal by materially red	lucing or simplifying t	he issues for
(d) ☐ They present additional claims without canceling a c	corresponding number of finally reject	cted claims.	
NOTE: (See 37 CFR 1.116 and 41.33(a)).	,		
4. The amendments are not in compliance with 37 CFR 1.12	1. See attached Notice of Non-Co	mpliant Amendment (I	PTOL-324).
<ol><li>Applicant's reply has overcome the following rejection(s):</li></ol>			
<ol> <li>Newly proposed or amended claim(s) would be all non-allowable claim(s).</li> </ol>		•	
<ol> <li>For purposes of appeal, the proposed amendment(s): a) [ how the new or amended claims would be rejected is prov</li> </ol>		be entered and an e	xplanation of
The status of the claim(s) is (or will be) as follows:			
Claim(s) allowed: Claim(s) objected to: <u>10</u> .			
Claim(s) rejected: 1-9 and 11-14.			
Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
<ol> <li>The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).</li> </ol>			
<ol> <li>The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary</li> </ol>	vercome <u>all</u> rejections under appea	l and/or appellant fail:	s to provide a
<ol> <li>The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER</li> </ol>	n of the status of the claims after er	ntry is below or attach	ed.
The request for reconsideration has been considered but See Continuation Sheet.	does NOT place the application in	condition for allowan	ce because:
12. Note the attached Information Disclosure Statement(s).	PTO/SB/08) Paper No(s)		
13. 🔲 Other:	, , , ,		
/Steven B. McAllister/ Supervisory Patent Examiner, Art Unit 3749	/Patrick F. O'Reilly III/ Examiner, Art Unit 3749		

Continuation of 11, does NOT place the application in condition for allowance because:

As explained in detail in the Final Rejection dated February 19, 2010, independent claims 1 and 8 are rejected under 35 U.S.C. 103(a) as being obvious over European Patent No. EP 0 985 807 A1 ("EP"807") in view of Van Bashuysen (US 4,335,849), and further in view of Carberry et al. (US 2002/0078681 A1). In his Remarks, the Applicant focuses on whether it would have been obvious to add the particle filter taught by Carberry et al. to the vehicle exhaust system disclosed in the EP '807 reference. As set forth below, the Examiner respectfully disagrees with the Apolicant's allegations reparation the teachings of the EP '807 reference and Carberry et al.

Contrary to the Applicant's assertions, one of ordinary skill in the art clearly would have been motivated to add the particle filter taught by Carberry et al. immediately downstream of the catalyst (4) in the EP '807 vehicle exhaust system. Refer to £07, Figure 4. A discussed in the section 103 rejections, a particle filter placed downstream of the catalyst (4) in the EP '807 exhaust system would advantageously capture particulate matter, such as carbon particles, in the exhaust gas air steem prior to its passing through the heat exchanger (E), thereby preventing the heat exchanger (E) from being clogged with particulate matter from the engine (M). See pages 5-6 of the Final Relication.

While it is true that Carberry et al. teaches that it is beneficial to periodically regenerate a particle filter in a vehicle exhaust system by incinerating the particulate matter trapped therein, it is not true that such a teaching would dissuade one of ordinary skill in the art from placing such a filter downstream of the catalyst (4) in EP '807. First, it is important to look at the manner in which the particle filter taught by Carberry et al. is regenerated. In this regard, Carberry et al. teaches that, in order to increase the exhaust gas temperature above a predetermined regeneration temperature (e.g., 450 deg. C), the throttle valve (18) of the engine (12) is moved to a partially closed position. Refer to Carberry et al., page 2, paragraph [0018]. With the particle filter added to the EP 807 exhaust system, it is certainly possible to modulate the throttle valve (18) of the engine (M) in EP '807 towards a closed position so that the particle filter can be regenerated. Also, the placement of the particle filter in a location immediately downstream of the catalyst (4) would be particularly beneficial because it is located in close proximity to the engine (M). Secondly, the Applicant erroneously concludes that, because the catalyst (4) is used in a coldstart phase during its normal operation, the regeneration of the particle filter in the modified exhaust system of EP '807 would not be possible without making significant modifications to the catalyst (4). The Examiner would like to emphasize that the regeneration of the particle filter is not required to be conducted during the normal operating phase of the catalyst with which it is associated. Thus, just because the normal operating phase of the catalyst (4) in EP '807 is during the cold-start of the engine (M), the regeneration of a particle filter located downstream of the catalyst (4) would not have to be done during the cold-start phase. In fact, it would be most desirable to never perform the regeneration during the normal operating phase of the catalyst. In addition, because the regeneration of the particle filter is initiated by altering the position of the engine throttle valve, the addition of the particle filter downstream of the catalyst (4) in EP '807 would not necessitate any extensive changes to the exhaust system as the Applicant so alleges. Therefore, the limitations set forth in independent claims 1 and 8 of this application clearly are rendered obvious by the combined teachings of EP' 807. Van Bashuysen, and Carberry et al.

In their present form, the claims fail to define over the teachings of the references relied upon in the Final Rejection. However, the Examiner would like to make some suggestions as to how the claims could be amended at least to define over the prior art of record. Most importantly, independent claims 1 and 8 could be amended so as to positively recite that the portion of the exhaust system located between the heat exchanger and the exhaust system outlet does not contain a depollution assembly. Such a limitation would clearly define over the EP '807 reference because the deletion of the main catalyst (5) in EP '807 would completely destroy the intended functionality of the exhaust system disclosed therein. In addition, independent claims 1 and 8 could be amended so as to clarify that the recited "circuit" is an "engine cooling circuit".